PATENT COOPERATION TREATY

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From the INTERNATIONAL PRELIMINARY EX.	AMINING AUTHORITY			SCIENTIFIC ATLANTA, INCLEGAL DEPARTMENT
To: KELLY A. GARDNER SCIENTIFIC-ATLANTA, INC. INTELLECTUAL PROPERTY DEPARTMENT S030 SUGARLOAF PARKWAY LAWRENCEVILLE, GA 30044			PCT	Security Communication of the
		WRITTEN OPINION		
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		Date of Mailing (day/month/year)	30 SEP	2004
Applicant's or agent's file reference		REPLY DUE within 2 months/days from the above date of mailing		
F-6286-PC International application No.	International filing date	(day/month/year)	Priority date (day/m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
PCT/US01/14150	02 May 2001 (02.05.20	Oi)	04 May 2000 (04.0:	5.2000)
International Patent Classification (IPC)	or both national classifica	uion and IPC		
IPC(7): H04N 7/16, 7/167, 7/173, 5/44	5; G06F 3/00, 13/00 and	US CL: 725/25-31, 3	37-47, 109-110	
Applicant				
SCIENTIFIC-ATLANTA, INC.			***************************************	
IV Lack of unity of V Reasoned statement citations and exp VI Certain document VII Certain defects in VIII Certain observations	tions relating to the following of opinion with regard invention the under Rule 66.2 (a)(ii) clarations supporting such interior international applications on the international a	ing items: to novelty, inventive with regard to nove statement tion pplication	step and industrial ap	olicability
3. The applicant is hereby invi When? See the time	ned to repty to this opinion indicated above. H		f ore the expiration of t	that time limit, request
this-Authori	t y to grant an extension. S	ee rule 66.2(d).		
For the form	ng a written reply, accomp n and the language of the i	imendments, see Rul	es 66.8 and 66.9.	, according to Kule 60.3.
For the exam For an infor	tional opportunity to submininer's obligation to consimilation with the	der amendments and the examiner, see Ru	/or arguments, see Ru de 66.6	
if no reply is filed, the inte		mination report will	be established on the t	oasis of this opinion.
4. The final date by which the examination report must be		Rule 69.2 is: 04 Sept	ember 2002 (04.09.20	02) .
Name and mailing address of the IPE Mail Stop PCT. Attn: IPEA/US Commissioner for Patents P.O. Box 1450		Authorized offic		ut hely

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Alexandria, Virginia 22313-1450

P.O. Box 1450

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PCT/US01/14150

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International application No.
PCT/US01/14150

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
I. STATEMENT							
Novelty (N)	Claims	11-15	YES				
(40,40%) /(4)	Claims	1-10, 16-44	NO				
· · · · · · · · · · · · · · · · · · ·	Ot for a	\$3236Y8**	YES				
Inventive Step (IS)	Claims	NONE 1-44	NO				
	Z-Manne.	\$ adult					
Industrial Applicability (IA)	Claims	1-44	YES				
	Claims	NONE	NO				
2. CITATIONS AND EXPLANATIONS Please See Continuation Sheet							

Form PCT/IPEA/408 (Box V) (July 1998)

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Supplemental Box

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TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

V. 2. Citations and Explanations:

Claims 1-10, and 16-44 lack novelty under PCT Article 33(2) as being anticipated by Hsu et al. (WO 98/56188).

Claim 1, Hsu discloses a method for accessing a plurality of services (i.e., entertainment program, on-line perchasing) by a client device coupled to a server device and a display (Fig. 1, 5, 7 & 8), comprising the steps of:

Presenting a user a menu containing a plurality of selectable link (soft buttons o Fig. 5, 7 & 8) representations corresponding to the plurality of services (i.e., Email, Fig. 8; page 20, lines 23-page 21, lines 5);

Receiving user input denoting a selected link representation from the plurality of selectable link representations (page 20), lines 16-20); and

Activating a service of the plurality of services that corresponds to the selected link representation (page 20, lines 23-page 21, lines 5).

Claim 2 Hsu further discloses wherein the plurality of services comprises all applications, channels, and services supported by the server device (i.e., Email, Fig. 8; page 20, lines 23-page 21, lines 5).

Claim 3, Hsu further discloses wherein each selectable link representation of the plurality of selectable link representations corresponds to a link definition that references a service of the plurality of services (page 22, lines 6-35). As to a link definition, it is well known in the art that a "link definition" in Web page is HTML Tags, i.e. $\langle A \rangle$, $\langle LINK \rangle$, etc... use in the HTML standard language in which Hsu' supplemental content is constructed as Hypertext file (Web page; page 23, lines 12-page 24, lines 41). Therefore, the link definition (HTML Tag) is an inherent feature of the HTML programming language in which Hsu's program guide is programmed with HTML page.

Claim 4, Hsu further discloses wherein each link definition is expressed in HTML (Web page; page 23, lines 12-page 24, lines 41).

Claim 6. Hsu further discloses wherein each link definition includes a URI that references the service referenced by the link definition ((Web page; page 23, lines 12-page 24, lines 41; A "link" in this context refers to a URI/URL which is used by the WEB browser application to locate another document/page/file/execution file either located locally at the user terminal or at the Web server of the ISP defined by the developer of the WEB browser);

Claim 7. His further discloses translating the user input denoting the selectable link representation into a service executable call, wherein the service executable call activates the service that corresponds to the selected link representation (page 14, lines 29-page 15, lines 35 and page 20, lines 16-20; i.e., in order to active the button of selected services of Fig. 7,8 in order to obtain further

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services, i.e. EMail).

Claim 8. Hsu further discloses wherein the menu is presented to the user responsive to the user selecting a channel mapped to the menu of a plurality of channels (Fig. 7; page 10, lines 25-page 16, lines 8).

Claim 9, Hsu (Fig. 1) further discloses presenting the menu to the user upon receiving a command from a remote unit 24, wherein the command from the remote unit is generated from a single user keystroke (page 7, lines 20-32).

Claim 10. Has further discloses wherein an IPG presents a scrolling list of channels, wherein one channel of the scrolling list of channels is the menu, and wherein the menu is displayed upon a user initiated selection of the channel in the IPG corresponding to the menu (page 10, lines 3-page 11, lines 18).

Claim 16, "wherein the link definition defining the selected link representation specifies a service resource environment of the service referenced by the selected link representation", is further met by Hsu because Hsu discloses a program guide is programmed in HTML in order to generate display screens and select program guide functionality according to the markup language. Display screen styles and layout of elements are defined using markup language approach. The markup language documents/pages may organize display element attributes (i.e. styles, layout and action attributes) into finite sets of display element attributes, which may be a subset of the attributes, actually programmed into the program guide. The sets of display element attributes may be assigned to the display elements using indicators or tags. Hsu further discloses a display screen may look after a program guide programmed with HTML page in which the system interpreted it for generating the graphical display screen and selecting program guide functionality, such as resized and repositioned a windows according to "digital data" or display element attribute defined in the HTML page of the supplemental content. Therefore, the display element attribute or "digital data" is a "service resource environment" in which it defines the functionality and behavior of sizing, the location of displaying video, graphic, image or text on the display screen in the link definition (HTML Tags) of the EPO HTML page (page 12, lines 8-page 15, lines 35).

Claim 17, Hsu further discloses wherein the service activates and utilizes an entire viewable area of the display responsive to the service resource environment defining a full screen mode (see Fig. 8).

Claim 18, wherein the service referenced by the selected link representation executes on top of a current channel display upon menu initialization responsive to the service resource environment defining a full screen overlay mode (see Fig. 5 and 7).

Claim 19, Hsu further discloses wherein the service referenced by the selected link representation executes on a majority portion of the display and a current channel executes in a reduced portion of the display responsive to the service resource environment defining a full screen obstructed mode (see Fig. 5, page 14, lines 29-35).

Claim 21, wherein each link definition further includes a title attribute referencing additional information about a corresponding service (see Fig. 5, page 14, lines 29-35).

Claim 22. Hsu further discloses wherein the additional information is presented to the user in a window in a fixed position in the menu above a row of the plurality of selectable link representations (page 14, lines 36-page 15, lines 10).

Claim 23-25, "presenting the additional information to the user in a window in a fixed position or pops up to the right of a column or below of the plurality of selectable link representations responsive to the user highlighting the selected link representation" is further met by Hsu (Fig. 5; page 14, lines 29-page 15, lines 10) from the grounds established in claim 16 above.

Claim 26-31. Hsu further discloses an interface for providing access to a plurality of services according to a service authorization for a user of the client device (page 21, lines 6-page 22, lines 5).

Claim 32-36. Hsu further discloses a user interface that includes a second menu of plurality of selectable ink representations each corresponding to a popular services based on a tabulation or accessing of the services most frequently accessed by the user (Page 22, lines 20-page 24, lines 28).

Claims 37-38 are analyzed with respect to the above claims.

Claim 39-44. Hsu further discloses a method to create a menu for a user to access a plurality of services by presenting a system operator a graphical list of the plurality of services provided by the server; implementing the server device to incorporate a selectable link representation in the menu and communicating to each of a plurality of client devices to the plurality of selectable link representations designated for incorporation in the menu in which to enable the user to add/disable one or more selectable link representations (page 25, lines 10-page 26, lines 26).

Claims 11-12 lack an inventive step under PCT Article 33(3) as being obvious over Hsu et al. (WO 98/56188) in view of WWW.W3C.org/International/O-help-lang http://www.w3c.org/International/O-help-lang.

Claim 11. Hsu does not disclose "... the step of presenting the menu in one of a plurality of languages chosen by the user".

W3C teaches that by adding two links to the document/page in English, one to a French (LANG=fr) document/page and one to a German (LANG=de) one (Paragraph Pointing to translated documents of page 2) from Webmaster/Computer programmer, the document in English will be presented to the Internet user with two (2) links, one in French and one in German in which the Internet user is able to select an equivalent document to the current one, in this case in a different language. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hsu with W3C to present a menu in one of the plurality of languages, as taught by W3C, so to provide to user an alternative way to view the document/page/EPG in an alternative language.

Claim 12. Hsu does not disclose. "... the step of presenting the menu in one of a plurality of languages chosen by a system operator of a server device coupled to the communication terminal, wherein a language configuration is communicated to the client device for implementation in the menu".

W3C teaches that Webmaster/Computer programmer chooses to add two links, one to a French (LANG=fr) document/page

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and one to a German (LANG=de) one (Paragraph Pointing to translated documents of page 2), to the document/page in English. The document in English will be presented to the Internet user with two (2) links, one in French and one in German in which the Internet user is able to select an equivalent document to the current one in a different language. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hsu with W3C to present a plurality of selectable link representations in one of the plurality of languages, as taught by W3C, so to provide to user an alternative way to view the document/page/EPG in an alternative language.

Claims 13-15 lack an inventive step under PCT Article 33(3) as being obvious over Hsu et al. (WO 98/56188).

Claims 13-15, Hsu further discloses wherein the activating step includes activating the service (see Fig. 8 and from previous analysis).

Hsu does not clearly disclose a short description of a service is included in the link definition defining the selectable link representation.

Including a short description of a service in the link definition (HTML Tags) of HTML syntax for defining the selectable link or using a "label name" (i.e. channel 21) in the link definition (HTML Tags) is well known in the art of computer programming using HTML language, i.e. ; link-text; ; link-text; ink-text; link-text; etc... Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use of a short description of a service in the link definition (HTML Tags) to define the selectable link with associated URL address in Hsu's HTML file supplemental content so to take the advantage of the inherent feature of HTML programming language for providing a short description to user or to allow user to access the web site that provide the selected services.

W3C, Putting Language attributes in HTML; www.w3.org/International/O-help-lang; dated 29th April 1997.